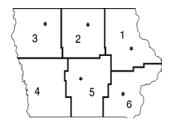
Minimum Separation Distances for Construction or Expansion of Confinement Feeding Operation Structures (All Animal Feeding Operations, including SAFO¹)

Instructions:

- 1. **Determine if you own or manage another confinement operation** that is located within 2,500 feet; or that utilize a common system for manure storage regardless of how far they are apart. If the answer is "yes", you must first contact the Animal Feeding Operations Program at (515) 281-8941 or your nearest DNR Field Office, before proceeding with separation distance determination.
- 2. Complete Worksheet No. 1 (page 2) to determine the Animal Unit Capacity (AUC).
- 3. **Complete Worksheet No. 2** (page 2), to determine the Animal Weight Capacity (AWC), however, this only applies to an operation that was constructed prior to March 1, 2003.
- 4. Determine the year when the operation was constructed. This is the date when any of the following occurred:
 - Excavation of a structure or excavation of the footings of a structure.
 - Installation of forms for concrete of a structure.
 - Installation of piping to transport manure between confinement feeding operation structures.
- 5. **Select the Table that applies**, based on the year when the operation was constructed and the animal species, according to the following:

| a) | Table 6 : New operation or expansion of an operation that was or will be constructed on or after March 1, 2003, for all animal species. | Page 3 |
|----|--|--------|
| b) | Table 6-A : Expansion or modification of an operation that was constructed on or after January 1, 1999 but prior to March 1, 2003, for animals other than bovine (swine, sheep, horses, poultry). | Page 4 |
| c) | Table 6-B : Expansion or modification of an operation that was constructed on or after January 1, 1999 but prior to March 1, 2003, for bovine (beef, dairy). | Page 5 |
| d) | Table 6-C : Expansion or modification of an operation that was constructed prior to January 1, 1999, for animals other than bovine (swine, sheep, horses, poultry). | Page 6 |
| e) | Table 6-D : Expansion or modification of an operation that was constructed prior to January 1, 1999, for bovine (beef, dairy). | Page 7 |

- 6. **Distances to a residence, business, church, school or public use area**: In the appropriate table, select the type of structure being constructed, expanded or modified. Use the AUC or AWC [whichever applies], to select the appropriate range for AUC or AWC, and the minimum required separation distances.
- 7. **Distances to water wells**: In the middle portion of the appropriate table, select the type of structure being constructed, expanded or modified. To determine if a well is deep or shallow, use the well log record. A 'deep well' is defined in 567 IAC 65.1(455B). Distances to wells are required to all animal feeding operations (SAFO¹s included).
- 8. Distance to major water sources, sinkholes, water sources, designated wetlands, environmentally sensitive areas and public thoroughfares: In the bottom part of the appropriate table, find these distance requirements that apply to all animal feeding operations (SAFO¹s included, unless specifically exempted). Major water sources are listed in 567 IAC 65, Tables 1 and 2.



For more information, contact one of these DNR offices or visit: www.lowaDNR.com

AFO Construction Permits 902 E 9th St (Wallace Building) Des Moines, IA 50319 (515) 281-8941 **Field Office 1**909 W Main, Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2 2300 15th St SW Mason City, IA 50401 (641) 424-4073 **Field Office 3** 1900 N Grand Ave Spencer, IA 51301 (712) 262-4177

Field Office 4 1401 Sunnyside Lane Atlantic, IA 50022 (712) 243-1934 **Field Office 5**401 SW 7th, Suite 1
Des Moines, IA 50309
(515) 725-0268

Field Office 6 1004 W Madison Washington, IA 52353 (319) 653-2135

CAUTION: This document is only a summary of Iowa Code chapter 459 (2003) and the DNR's amended administrative rules. It is a guidance document and should not be used as replacement for the statutory provisions and administrative rules (collectively, the law). While every effort has been made to assure the accuracy of this information, the law will prevail in the event of a conflict between this document and the law.

SAFO = A Small animal feeding operation, which as an animal unit capacity of 500 animal units (AU) or less.



DNR Rev June 1, 2005

| Maria at Our and the | Estable ID No. | |
|----------------------|------------------|--|
| Name of Operation: _ | Facility ID No.: | |

Worksheet 1. Animal unit capacity (AUC)

The animal unit capacity (AUC) is the maximum number of animal units (AU) maintained at the operation at any one time. To calculate the AUC, multiply the maximum number of animals confined at any one time by the appropriate AU factor and then add all animal units together. If you own or manage another confinement operation that utilizes a common system for manure storage, or that is located within 2,500 feet, you must first contact the DNR (see page 1):

| Animal Species | Current | | Proposed Expansion (No. of animals to be added) | | | Total | | | |
|---|------------|------------|---|------------|------------|-------|------------|------------|------|
| Animai opecies | (No. Head) | x (Factor) | = AU | (No. Head) | x (Factor) | = AU | (No. Head) | x (Factor) | = AU |
| Slaughter or feeder cattle | | 1.0 | | | 1.0 | | | 1.0 | |
| Immature dairy cattle | | 1.0 | | | 1.0 | | | 1.0 | |
| Mature dairy cattle | | 1.4 | | | 1.4 | | | 1.4 | |
| Gestating sows | | 0.4 | | | 0.4 | | | 0.4 | |
| Farrowing sows & litter | | 0.4 | | | 0.4 | | | 0.4 | |
| Boars | | 0.4 | | | 0.4 | | | 0.4 | |
| Gilts | | 0.4 | | | 0.4 | | | 0.4 | |
| Finished (Market) hogs | | 0.4 | | | 0.4 | | | 0.4 | |
| Nursery pigs 15 lb. to 55 lb. | | 0.1 | | | 0.1 | | | 0.1 | |
| Sheep and lambs | | 0.1 | | | 0.1 | | | 0.1 | |
| Horses | | 2.0 | | | 2.0 | | | 2.0 | |
| Turkeys 7lbs. or more | | 0.018 | | | 0.018 | | | 0.018 | |
| Turkeys less than 7 lbs. | | 0.0085 | | | 0.0085 | | | 0.0085 | |
| Broiler/Layer chickens 3 lbs. or more | | 0.01 | | | 0.01 | | | 0.01 | |
| Broiler/Layer chickens less than 3 lbs. | | 0.0025 | | | 0.0025 | | | 0.0025 | |
| Total AUC: | | | | | | | | | |

Worksheet 2. Animal weight capacity (AWC)

Only applies to operations that were first constructed prior to March 1, 2003. The animal weight capacity (AWC) is the product of multiplying the maximum number of animals confined at any one time by their average weight during the production cycle. Use the AWC definition and its examples set forth in rule 567 IAC 65.1(455B). Then add the AWC is more than one animal species is present.

| Animal Species | Current | | | Proposed Expansion (No. of animals to be added) | | | Total | | |
|---|--------------|------------|-------|---|------------|-------|--------------|------------|-------|
| Aililiai Species | (No. head) x | avg weight | = AWC | (No. head) x | avg weight | = AWC | (No. head) x | avg weight | = AWC |
| Slaughter or feeder cattle | | | | | | | | | |
| Immature dairy cattle | | | | | | | | | |
| Mature dairy cattle | | | | | | | | | |
| Gestating sows | | | | | | | | | |
| Farrowing sows & litter | | | | | | | | | |
| Boars | | | | | | | | | |
| Gilts | | | | | | | | | |
| Finished (Market) hogs | | | | | | | | | |
| Nursery pigs 15 lb. to 55 lb. | | | | | | | | | |
| Sheep and lambs | | | | | | | | | |
| Horses | | | | | | | | | |
| Turkeys 7lbs. or more | | | | | | | | | |
| Turkeys less than 7 lbs. | | | | | | | | | |
| Broiler/Layer chickens 3 lbs. or more | | | | | | | | | |
| Broiler/Layer chickens less than 3 lbs. | | | | | | | | | |
| Total AWC: | | | | | | | | | |



567 IAC 65.11(455B), Table 6

Minimum separation distances for a new confinement feeding operation or expansion of an operation constructed on or after March 1, 2003

| Type of Structure (liquid, semi-liquid | Total Animal Unit Capacity (AUC) | Residences, Churches | Public use | |
|---|-------------------------------------|-------------------------|-----------------------|------------|
| and dry manure storage) | (AU) | Unincorporated Areas | Incorporated Areas | areas |
| Angerabia laggers and | 500 AU or less | 1,875 feet | 1,875 feet | 1,875 feet |
| Anaerobic lagoons and uncovered earthen manure | 501 AU to < 1,000 AU | 1,875 feet | 1,875 feet | 1,875 feet |
| storage basins | 1,000 AU to < 3,000 AU | 2,500 feet | 2,500 feet | 2,500 feet |
| | 3,000 AU or more | 3,000 feet | 3,000 feet | 3,000 feet |
| | 500 AU or less | 1,250 feet | 1,875 feet | 1,875 feet |
| Covered earthen manure | 501 AU to < 1,000 AU | 1,250 feet | 1,875 feet | 1,875 feet |
| storage basins | 1,000 AU to < 3,000 AU | 1,875 feet | 2,500 feet | 2,500 feet |
| | 3,000 AU or more | 2,375 feet | 3,000 feet | 3,000 feet |
| | 500 AU or less | None | None | None |
| Uncovered formed manure | 501 AU to < 1,000 AU | 1,500 feet | 1,875 feet | 1,875 feet |
| storage structures | 1,000 AU to < 3,000 AU | 2,000 feet | 2,500 feet | 2,500 feet |
| | 3,000 AU or more | 2,500 feet | 3,000 feet | 3,000 feet |
| One fire and the little and and | 500 AU or less | None | None | None |
| Confinement buildings and covered formed manure | 501 AU to < 1,000 AU | 1,250 feet | 1,875 feet | 1,875 feet |
| storage structures | 1,000 AU to < 3,000 AU | 1,875 feet | 2,500 feet | 2,500 feet |
| Storage structures | 3,000 AU or more | 2,375 feet | 3,000 feet | 3,000 feet |
| | 500 AU or less | None | None | None |
| Egg washwater | 501 AU to < 1,000 AU | 1,000 feet | 1,875 feet | 1,875 feet |
| storage structures | 1,000 AU to < 3,000 AU | 1,500 feet | 2,500 feet | 2,500 feet |
| | 3,000 AU or more | 2,000 feet | 3,000 feet | 3,000 feet |

Distances to Wells

| Applies to all Animal Feeding Operations, regardless of the size of operation, including operations with 500 AU or less | | well | Private well | |
|--|------------|----------|--------------|----------|
| | | Deep | Shallow | Deep |
| Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure and open feedlot runoff control basin | 1,000 feet | 400 feet | 400 feet | 400 feet |
| Formed manure storage structure, confinement building, open feedlot solids settling facility and open feedlot. | 200 feet | 100 feet | 200 feet | 100 feet |

| Applies to all Confinement Feeding Operations, regardless of animal unit capacity, including operations with 500 AU or less, unless stated otherwise | |
|--|------------|
| Major water sources, wellhead, cistern of an agricultural drainage well or known sinkhole (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 1,000 feet |
| Water sources other than major water sources, surface intakes of an agricultural drainage well (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 500 feet |
| Designated wetlands (owned and managed by the Federal government or the Iowa DNR) | 2,500 feet |
| Right-of-way of a public thoroughfare (road, street or bridge) constructed or maintained by the state or a political subdivision (excluding operations with 500 AU or less) | 100 feet |



TABLE 6-A (Swine, Sheep, Horses and Poultry)

Minimum separation distances for expansion of confinement feeding operations constructed on or after January 1, 1999 but prior to March 1, 2003

| Type of Structure | Size of operation | Residences, Churches | Public use | |
|---|-------------------------------|-------------------------|-----------------------|------------|
| (liquid, semi-liquid and dry manure storage) | AUC (AU) and AWC (lbs) | Unincorporated Areas | Incorporated Areas | areas |
| Anagrabia laggang and | 500 AU or less | 1,250 feet | 1,250 feet | 1,250 feet |
| Anaerobic lagoons and uncovered earthen manure | 501 AU to <625,000 lbs | 1,250 feet | 1,250 feet | 1,250 feet |
| storage basins | 625,000 lbs to <1,250,000 lbs | 1,875 feet | 1,875 feet | 1,875 feet |
| | 1,250,000 lbs or more | 2,500 feet | 2,500 feet | 2,500 feet |
| | 500 AU or less | 1,000 feet | 1,250 feet | 1,250 feet |
| Covered earthen manure | 501 AU to <625,000 lbs | 1,000 feet | 1,250 feet | 1,250 feet |
| storage basins | 625,000 lbs to <1,250,000 lbs | 1,250 feet | 1,875 feet | 1,875 feet |
| | 1,250,000 lbs or more | 1,875 feet | 2,500 feet | 2,500 feet |
| | 500 AU or less | None | None | None |
| Uncovered formed manure | 501 AU to <625,000 lbs | 1,250 feet | 1,250 feet | 1,250 feet |
| storage structures | 625,000 lbs to <1,250,000 lbs | 1,500 feet | 1,875 feet | 1,875 feet |
| | 1,250,000 lbs or more | 2,000 feet | 2,500 feet | 2,500 feet |
| Confinement buildings and | 500 AU or less | None | None | None |
| Confinement buildings and covered formed manure | 501 AU to <625,000 lbs | 1,000 feet | 1,250 feet | 1,250 feet |
| storage structures | 625,000 lbs to <1,250,000 lbs | 1,250 feet | 1,875 feet | 1,875 feet |
| storage structures | 1,250,000 lbs or more | 1,875 feet | 2,500 feet | 2,500 feet |
| | 500 AU or less | None | None | None |
| Egg washwater | 501 AU to <625,000 lbs | 750 feet | 1,250 feet | 1,250 feet |
| storage structures | 625,000 lbs to <1,250,000 lbs | 1,000 feet | 1,875 feet | 1,875 feet |
| | 1,250,000 lbs or more | 1,500 feet | 2,500 feet | 2,500 feet |

Distances to Wells

| Applies to all Animal Feeding Operations, regardless of the size of operation, including operations with 500 AU or less | | well | Private well | |
|--|------------|----------|--------------|----------|
| | | Deep | Shallow | Deep |
| Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure and open feedlot runoff control basin | 1,000 feet | 400 feet | 400 feet | 400 feet |
| Formed manure storage structure, confinement building, open feedlot solids settling facility and open feedlot. | 200 feet | 100 feet | 200 feet | 100 feet |

| Applies to all Confinement Feeding Operations, regardless of animal unit capacity including operations with 500 AU or less, unless stated otherwise | |
|--|------------|
| Major water sources, wellhead, cistern of an agricultural drainage well or known sinkhole (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 1,000 feet |
| Water sources other than major water sources, surface intakes of an agricultural drainage well (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 500 feet |
| Designated wetlands (owned and managed by the Federal government or the lowa DNR) | 2,500 feet |
| Right-of-way of a public thoroughfare (road, street or bridge) constructed or maintained by the state or a political subdivision (excluding operations with 500 AU or less) | 100 feet |



TABLE 6-B (Beef and Dairy Cattle)

Minimum separation distances for expansion of a confinement feeding operation constructed on or after January 1, 1999 but prior to March 1, 2003

| Type of Structure (liquid, semi-liquid | Size of operation AUC (AU) and | Residences, Churches | Public use | |
|---|-----------------------------------|-------------------------|-----------------------|------------|
| and dry manure storage) | AWC (lbs) | Unincorporated Areas | Incorporated Areas | areas |
| Anaerobic lagoons and | 500 AU or less | 1,250 feet | 1,250 feet | 1,250 feet |
| uncovered earthen manure | 501 AU to <1,600,000 lbs | 1,250 feet | 1,250 feet | 1,250 feet |
| storage basins | 1,600,000 lbs to <4,000,000 lbs | 1,875 feet | 1,875 feet | 1,875 feet |
| otorago zaomo | 4,000,000 lbs or more | 2,500 feet | 2,500 feet | 2,500 feet |
| | 500 AU or less | 1,000 feet | 1,250 feet | 1,250 feet |
| Covered earthen manure | 501 AU to <1,600,000 lbs | 1,000 feet | 1,250 feet | 1,250 feet |
| storage basins | 1,600,000 lbs to <4,000,000 lbs | 1,250 feet | 1,875 feet | 1,875 feet |
| | 4,000,000 lbs or more | 1,875 feet | 2,500 feet | 2,500 feet |
| | 500 AU or less | None | None | None |
| Uncovered formed manure | 501 AU to <1,600,000 lbs | 1,250 feet | 1,250 feet | 1,250 feet |
| storage structures | 1,600,000 lbs to <4,000,000 lbs | 1,500 feet | 1,875 feet | 1,875 feet |
| | 4,000,000 lbs or more | 2,000 feet | 2,500 feet | 2,500 feet |
| Confinement buildings and | 500 AU or less | None | None | None |
| Confinement buildings and covered formed manure | 501 AU to <1,600,000 lbs | 1,000 feet | 1,250 feet | 1,250 feet |
| storage structures | 1,600,000 lbs to <4,000,000 lbs | 1,250 feet | 1,875 feet | 1,875 feet |
| Storage structures | 4,000,000 lbs or more | 1,875 feet | 2,500 feet | 2,500 feet |

Distances to Wells

| Applies to all Animal Feeding Operations, regardless of the size of operation, including operations with 500 AU or less | | well | Private | well |
|---|------------|----------|----------|----------|
| | | Deep | Shallow | Deep |
| Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure and open feedlot runoff control basin. | 1,000 feet | 400 feet | 400 feet | 400 feet |
| Formed manure storage structure, confinement building, open feedlot solids settling facility and open feedlot. | 200 feet | 100 feet | 200 feet | 100 feet |

| Applies to all Confinement Feeding Operations, regardless of animal unit capacity, including operations with 500 AU or less, unless stated otherwise | |
|--|------------|
| Major water sources, wellhead, cistern of an agricultural drainage well or known sinkhole (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 1,000 feet |
| Water sources other than major water sources, surface intakes of an agricultural drainage well (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 500 feet |
| Designated wetlands (owned and managed by the Federal government or the Iowa DNR) | 2,500 feet |
| Right-of-way of a public thoroughfare (road, street or bridge) constructed or maintained by the state or a political subdivision (excluding operations with 500 AU or less) | 100 feet |



TABLE 6-C (Swine, Sheep, Horses and Poultry)

Minimum separation distances for expansion of a confinement feeding operation constructed prior to January 1, 1999

| Type of Structure | Size of operation | Residences, Businesses, Churches, Schools | | Public use | |
|---|-------------------------------|--|-----------------------|------------|--|
| (liquid, semi-liquid and dry manure storage) | AUC (AU) and AWC (Ibs) | Unincorporated Areas | Incorporated Areas | areas | |
| Anaerobic lagoons and | 500 AU or less | 1,250 feet | 1,250 feet | 1,250 feet | |
| uncovered earthen manure | 501 AU to <625,000 lbs | 1,250 feet | 1,250 feet | 1,250 feet | |
| storage basins | 625,000 lbs to <1,250,000 lbs | 1,875 feet | 1,875 feet | 1,875 feet | |
| otorage bacino | 1,250,000 lbs or more | 2,500 feet | 2,500 feet | 2,500 feet | |
| | 500 AU or less | 750 feet | 1,250 feet | 1,250 feet | |
| Covered earthen manure | 501 AU to <625,000 lbs | 750 feet | 1,250 feet | 1,250 feet | |
| storage basins | 625,000 lbs to <1,250,000 lbs | 1,000 feet | 1,875 feet | 1,875 feet | |
| | 1,250,000 lbs or more | 1,500 feet | 2,500 feet | 2,500 feet | |
| | 500 AU or less | None | None | None | |
| Uncovered formed manure | 501 AU to <625,000 lbs | 1,000 feet | 1,250 feet | 1,250 feet | |
| storage structures | 625,000 lbs to <1,250,000 lbs | 1,500 feet | 1,875 feet | 1,875 feet | |
| | 1,250,000 lbs or more | 2,000 feet | 2,500 feet | 2,500 feet | |
| Confinement buildings and | 500 AU or less | None | None | None | |
| Confinement buildings and covered formed manure | 501 AU to <625,000 lbs | 750 feet | 1,250 feet | 1,250 feet | |
| storage structures | 625,000 lbs to <1,250,000 lbs | 1,000 feet | 1,875 feet | 1,875 feet | |
| Storage structures | 1,250,000 lbs or more | 1,500 feet | 2,500 feet | 2,500 feet | |
| | 500 AU or less | None | None | None | |
| Egg washwater | 501 AU to <625,000 lbs | 750 feet | 1,250 feet | 1,250 feet | |
| storage structures | 625,000 lbs to <1,250,000 lbs | 1,000 feet | 1,875 feet | 1,875 feet | |
| | 1,250,000 lbs or more | 1,500 feet | 2,500 feet | 2,500 feet | |

Distances to Wells

| Applies to all Animal Feeding Operations, regardless of the size | Public well | | Private well | |
|---|-------------|----------|--------------|----------|
| of operation, including operations with 500 AU or less | | Deep | Shallow | Deep |
| Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure and open feedlot runoff control basin. | 1,000 feet | 400 feet | 400 feet | 400 feet |
| Formed manure storage structure, confinement building, open feedlot solids settling basin and open feedlot. | 200 feet | 100 feet | 200 feet | 100 feet |

| Applies to all Confinement Feeding Operations, regardless of animal unit capacity, including operations with 500 AU or less, unless stated otherwise | |
|--|------------|
| Major water sources, wellhead, cistern of an agricultural drainage well or known sinkhole (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 1,000 feet |
| Water sources other than major water sources, surface intakes of an agricultural drainage well (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 500 feet |
| Designated wetlands (owned and managed by the Federal government or the Iowa DNR) | 2,500 feet |
| Right-of-way of a public thoroughfare (road, street or bridge) constructed or maintained by the state or a political subdivision (excluding operations with 500 AU or less) | 100 feet |



TABLE 6-D (Beef and Dairy Cattle)

Minimum separation distances for expansion of a confinement feeding operations constructed prior to January 1, 1999

| Type of Structure | Size of operation | Residences, Churches | Public use | | |
|--|---------------------------------|-------------------------|-----------------------|------------|--|
| (liquid, semi-liquid and dry manure storage) | AUC (AU) and AWC (lbs) | Unincorporated Areas | Incorporated Areas | areas | |
| Anarabia laggang and | 500 AU or less | 1,250 feet | 1,250 feet | 1,250 feet | |
| Anaerobic lagoons and uncovered earthen manure | 501 AU to <1,600,000 lbs | 1,250 feet | 1,250 feet | 1,250 feet | |
| storage basins | 1,600,000 lbs to <4,000,000 lbs | 1,875 feet | 1,875 feet | 1,875 feet | |
| Storage Baemie | 4,000,000 lbs or more | 2,500 feet | 2,500 feet | 2,500 feet | |
| | 500 AU or less | 750 feet | 1,250 feet | 1,250 feet | |
| Covered earthen manure | 501 AU to <1,600,000 lbs | 750 feet | 1,250 feet | 1,250 feet | |
| storage basins | 1,600,000 lbs to <4,000,000 lbs | 1,000 feet | 1,875 feet | 1,875 feet | |
| | 4,000,000 lbs or more | 1,500 feet | 2,500 feet | 2,500 feet | |
| | 500 AU or less | None | None | None | |
| Uncovered formed manure | 501 AU to <1,600,000 lbs | 1,000 feet | 1,250 feet | 1,250 feet | |
| storage structures | 1,600,000 lbs to <4,000,000 lbs | 1,500 feet | 1,875 feet | 1,875 feet | |
| | 4,000,000 lbs or more | 2,000 feet | 2,500 feet | 2,500 feet | |
| Confinement buildings and | 500 AU or less | None | None | None | |
| Confinement buildings and covered formed manure storage structures | 501 AU to <1,600,000 lbs | 750 feet | 1,250 feet | 1,250 feet | |
| | 1,600,000 lbs to <4,000,000 lbs | 1,000 feet | 1,875 feet | 1,875 feet | |
| Storage structures | 4,000,000 lbs or more | 1,500 feet | 2,500 feet | 2,500 feet | |

Distances to Wells

| Applies to all Animal Feeding Operations, regardless of the size | Public well | | Private well | |
|---|-------------|----------|--------------|----------|
| of operation, including operations with 500 AU or less | | Deep | Shallow | Deep |
| Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure and open feedlot runoff control basin. | 1,000 feet | 400 feet | 400 feet | 400 feet |
| Formed manure storage structure, confinement building, open feedlot solids settling basin and open feedlot. | 200 feet | 100 feet | 200 feet | 100 feet |

| Applies to all Confinement Feeding Operations, regardless of animal unit capacity, including operations with 500 AU or less, unless stated otherwise | |
|--|------------|
| Major water sources, wellhead, cistern of an agricultural drainage well or known sinkhole (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 1,000 feet |
| Water sources other than major water sources, surface intakes of an agricultural drainage well (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided) | 500 feet |
| Designated wetlands (owned and managed by the Federal government or the Iowa DNR) | 2,500 feet |
| Right-of-way of a public thoroughfare (road, street or bridge) constructed or maintained by the state or a political subdivision (excluding operations with 500 AU or less) | 100 feet |

